

(19) World Intellectual Property
Organization
International Bureau



(43) International Publication Date
27 May 2004 (27.05.2004)

PCT

(10) International Publication Number
WO 2004/043598 A1

(51) International Patent Classification⁷: **B01L 3/00**,
B81B 1/00

(21) International Application Number:
PCT/GB2003/004976

(22) International Filing Date:
14 November 2003 (14.11.2003)

(25) Filing Language: English

(26) Publication Language: English

(30) Priority Data:
0226691.4 14 November 2002 (14.11.2002) GB

(71) Applicant (for all designated States except US): UNI-
VERSITY COLLEGE CARDIFF CONSULTANTS
LIMITED [GB/GB]; 55 Park Place, Cardiff CF10 3AT
(GB).

(72) Inventors; and

(75) Inventors/Applicants (for US only): **BARROW, David**,
Anthony [GB/GB]; 61 Lake Road West, Roath Park,
Cardiff CF23 5PH (GB). **HARRIES, Nicola** [GB/GB];
13 Cae Mawr Road, Rhiwbina, Cardiff CF14 6NX (GB).

JONES, Tyrone, Gwyn [GB/GB]; 5 Lansbury Avenue,
Cefn Hengoed, Hengoed, Mid Glamorgan, CF82 7HA
(GB). **BOURIS, Kostas** [—/—]; 17 Cressfield Drive,
Pontprennau, Cardiff, CF23 8NT (GB).

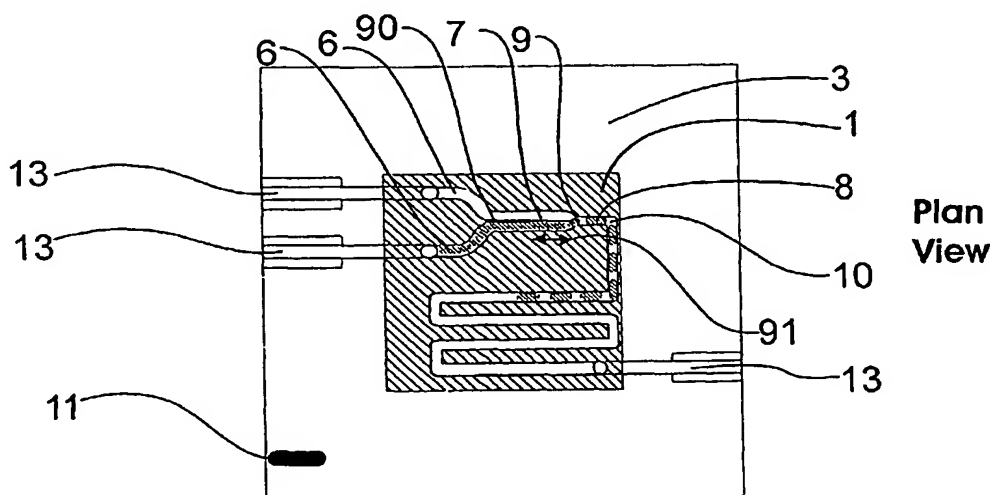
(74) Agent: **GIBSON, Stewart, Harry**; Urquhart-Dykes &
Lord, Three Trinity Court, 21-27 Newport Road, Cardiff
CF24 0AA (GB).

(81) Designated States (*national*): AE, AG, AL, AM, AT, AU,
AZ, BA, BB, BG, BR, BW, BY, BZ, CA, CH, CN, CO, CR,
CU, CZ, DE, DK, DM, DZ, EC, EE, EG, ES, FI, GB, GD,
GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR,
KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN,
MW, MX, MZ, NI, NO, NZ, OM, PG, PH, PL, PT, RO, RU,
SC, SD, SE, SG, SK, SL, SY, TJ, TM, TN, TR, TT, TZ, UA,
UG, US, UZ, VC, VN, YU, ZA, ZM, ZW.

(84) Designated States (*regional*): ARIPO patent (BW, GH,
GM, KE, LS, MW, MZ, SD, SL, SZ, TZ, UG, ZM, ZW),
Eurasian patent (AM, AZ, BY, KG, KZ, MD, RU, TJ, TM),
European patent (AT, BE, BG, CH, CY, CZ, DE, DK, EE,
ES, FI, FR, GB, GR, HU, IE, IT, LU, MC, NL, PT, RO, SE,
SI, SK, TR), OAPI patent (BF, BJ, CF, CG, CI, CM, GA,
GN, GQ, GW, ML, MR, NE, SN, TD, TG).

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(54) Title: MICROFLUIDIC DEVICE & METHODS FOR CONSTRUCTION & APPLICATION



(57) **Abstract:** A microfluidic device comprises first and second inlet passages (13) for respective immiscible fluids, these inlet passages merging into a third passage (8) along which the two fluids flow under parallel laminar flow conditions, the third passage being formed with a constriction or other discontinuity (9) causing the two fluids to form into a flow of alternate segments.